

9 pages

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14	US-4529451-\$ DID. OR US-4766548-\$ DID. OR US-5091713-\$ DID. OR US-5142694-\$ DID. OR US-5708963-\$ DID. OR US-5844808-\$ DID. OR US-5892900-\$ DID. OR US-5910987-\$ DID. OR US-5924081-\$ DID. OR US-5949876-\$ DID. OR US-5958869-\$ DID. OR US-6038551-\$ DID. OR US-6061668-\$ DID. OR US-6073134-\$ DID.	USPAT	OR	ON	2004/07/26 12:46
S2	1	("5959869").PN.	USPAT; USOCR	OR	OFF	2004/07/23 12:54
S3	5	"6061668".URPN.	USPAT	OR	ON	2005/03/08 14:41
S4	26	("T104003"   "3383467"   "3858181"   "4412282" "4418333"   "4510778" "4555639"   "4999763" "5091713"   "5225977" "5280423"   "5386362" "5390385"   "5412291" "5424940"   "5450938" "5570085"   "5586174" "5600310"   "5619614" "5694323"   "5757643" "5777895"   "5799281" "5859778"   "5997170").PN.	USPAT	OR	ON	2004/07/23 16:00
S5	1	rolling near2 (nonce or secret)	USPAT	OR	ON	2005/03/08 15:03
S6	120	direction\$2 near3 code same message	USPAT	OR	ON	2004/07/23 17:00
S7	67	(direction\$2 near3 code same message) and (encrypt\$3 or encod\$3 or authenticat\$3)	USPAT	OR	ON	2005/03/08 15:05
S8	16	(direction\$2 near3 code same message) and (authenticat\$3 or integrity)	USPAT	OR	ON	2005/03/08 15:06
S9	6478	713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccis.	US-PGPUB; USPAT	OR	ON	2004/07/26 13:24

## EAST Search History

S10	1082	713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)	US-PGPUB; USPAT	OR	ON	2004/07/26 13:24
S11	723	(713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)	US-PGPUB; USPAT	OR	ON	2004/07/26 13:24
S12	5	((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm)) and ((center or central) near2 (control\$3 or manag\$5))	US-PGPUB; USPAT	OR	ON	2005/03/08 15:25
S13	264	((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((sequence near2 (value or number)) or counter)	US-PGPUB; USPAT	OR	ON	2005/08/08 10:37
S14	37	((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((sequence near2 (value or number)) or counter)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm))	US-PGPUB; USPAT	OR	ON	2005/08/08 10:37
S10 2	9	"6061668".URPN.	USPAT	OR	ON	2005/03/08 14:41
S10 3	6	rolling near2 (nonce or secret)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 15:03

## EAST Search History

S10 4	27	(direction\$2 near3 code same message) and (authenticat\$3 or integrity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 15:06
S10 5	5	((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm)) and ((center or central) near2 (control\$3 or manag\$5))	US-PGPUB; USPAT	OR	ON	2005/08/08 10:54
S10 6	46	((((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((sequence near2 (value or number) or counter)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm))	US-PGPUB; USPAT	OR	ON	2005/03/08 15:28
S10 7	64	"sequence number" with checksum with message\$1	US-PGPUB; USPAT	OR	ON	2005/08/08 10:56
S10 8	158	"sequence number" with (hash or mac or encrypt\$3) with message\$1	US-PGPUB; USPAT	OR	ON	2005/03/16 17:44
S11 0	106	S108 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT	OR	ON	2005/08/08 11:00
S11 7	337	((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((sequence near2 (value or number) or counter)	US-PGPUB; USPAT	OR	ON	2005/08/08 10:37

## EAST Search History

S11 8	48	<pre>((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((sequence near2 (value or number)) or counter)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm))</pre>	US-PGPUB; USPAT	OR	ON	2005/08/08 10:37
S11 9	5	<pre>((713/168-170,176,181, 201;380/262, 265;709/208;700/236, 241;705/400.ccls. and (message\$1 near5 authenticat\$3)) and ((hash\$3 or digest or sign\$5) with message\$1)) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm)) and ((center or central) near2 (control\$3 or manag\$5))</pre>	US-PGPUB; USPAT	OR	ON	2006/03/24 10:16
S12 0	66	"sequence number" with checksum with message\$1	US-PGPUB; USPAT	OR	ON	2005/08/08 10:57
S12 1	171	"sequence number" with (hash or mac or encrypt\$3) with message\$1	US-PGPUB; USPAT	OR	ON	2005/08/08 11:00
S12 2	111	S121 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT	OR	ON	2005/08/08 11:00
S12 4	10595	message with (counter or (sequence adj number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/08 11:52
S12 5	454	S124 and ((multiple or plural\$3 or each) near3 counter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/08 12:24
S12 7	6	S124 and ((maintain\$3 or keep\$3) near2 ((multiple or plural\$3 or each) near3 counter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 15:07
S12 9	18	S124 and (((multiple or plural\$3 or each) near3 counter) with ((each or different or multiple) near3 (client or user or receiver or recipient or request\$2)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/17 17:33

## EAST Search History

S13 1	346	S125 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/08 12:24
S13 2	18	S125 and (((multiple or plural\$3 or each) near3 counter) with ((each or different or multiple or according\$2 or associated) near3 (client or user or receiver or recipient or request\$2)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/08 12:50
S13 3	20	S125 and (((multiple or plural\$3 or each) near3 counter) with ((each or different or multiple or according\$2 or associated) near3 (client or user or receiver or recipient or request\$2 or transmitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/08 12:50
S13 5	17	("5200950").URPN.	USPAT	ADJ	ON	2005/08/08 13:43
S14 5	129	(counter or (sequence number)) near3 ((non\$1reset\$5) or (un\$1reset\$5) or ("not" near3 reset\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 11:01
S14 6	3	S145 and ((counter or (sequence number)) near4 message)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 11:01
S14 7	113	S145 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 11:06
S14 8	16	(server or center) near2 ((multiple or plural\$3 or each) near3 (counter or (sequence number)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 15:09
S14 9	52	(server or center) near5 ((multiple or plural\$3 or each) near3 (counter or (sequence number)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 15:09
S15 0	31	S149 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/09 15:09

## EAST Search History

S15 6	219	((sequence adj number) or counter) same (replay near3 (message or attack))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 18:00
S15 7	16	S156 and ((each or every or multiple or plural\$3) near2 ((sequence adj number) or counter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:56
S15 8	1	S156 and (((sequence adj number) or counter)) with ((each or specific) near3 (user or client or device or receiver or sender or transmitter or pair or entit\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:58
S15 9	98	((sequence adj number) or counter) with (replay near3 (message or attack))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 18:01
S16 0	42	S159 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 18:01
S16 1	3437	713/168-170,176,181;380/262, 265;709/208;700/236, 241;705/400.ccls. and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 10:52
S16 2	86	S161 and (message\$1 near5 (authenticat\$3 verif\$7 validat\$3)) same ((hash\$3 or digest or signature checksum crc) with message\$1) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 10:35
S16 4	15	S162 and (((hash\$3 or digest or signature checksum crc) with message\$1) same ((sequence near2 (value or number)) or counter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:33
S16 5	20	("6061668").URPN.	USPAT	OR	ON	2006/03/24 10:39

## EAST Search History

S16 6	1647	713/171;380/264,273,277-278, 281,284,44.ccls. and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 10:53
S16 7	102	S166 and ((key secret) near3 (renew\$3 chang\$3 deriv\$5 roll\$3 distribut\$3)) same ((hash\$3 encrypt\$3 function) with ((master long\$1term primary) near2 (key secret)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:30
S16 8	62	S166 and ((key secret) near3 (renew\$3 chang\$3 deriv\$5 roll\$3 distribut\$3)) with ((hash\$3 encrypt\$3 function) near4 ((master long\$1term primary) near2 (key secret)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:35
S16 9	1	("4688250").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/24 12:40
S17 0	16	("4688250").URPN.	USPAT	OR	ON	2006/03/24 12:55
S17 1	17	S166 and (((((replac\$4 chang\$3 updat\$3 roll\$3) near3 key) rekey\$3) near5 (command instruction message operation)) same ((master long\$1term primary) near2 (key secret)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:36
S17 2	6	("5720034").URPN.	USPAT	OR	ON	2006/03/24 14:44
S17 3	3667	713/168-170,176,181;380/262, 265;709/208;700/236, 241;705/400.ccls. and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:38
S17 4	95	S173 and (message\$1 near5 (authenticat\$3 verif\$7 validat\$3)) same ((hash\$3 or digest or signature checksum crc) with message\$1) and ((house\$1hold near2 appliance\$1) or (vend\$3 near2 machine or atm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:33
S17 5	15	S174 and (((hash\$3 or digest or signature checksum crc) with message\$1) same ((sequence near2 (value or number)) or counter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:34

## EAST Search History

S17 6	1742	713/171;380/264,273,277-278, 281,284,44.ccis. and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:35
S17 7	62	S176 and ((key secret) near3 (renew\$3 chang\$3 deriv\$5 roll\$3 distribut\$3)) with ((hash\$3 encrypt\$3 function) near4 ((master long\$1term primary) near2 (key secret)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:36
S17 8	17	S176 and (((((replac\$4 chang\$3 updat\$3 roll\$3) near3 key) rekey\$3) near5 (command instruction message operation)) same ((master long\$1term primary) near2 (key secret)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:37
S17 9	477	(key near3 (generat\$3 updat\$3 roll\$3 renew\$3 deriv\$5)) same ((hash\$3 one\$1way encrypt\$3) with ((current old existing) near2 key))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:41
S18 0	332	(key near3 (generat\$3 updat\$3 roll\$3 renew\$3 deriv\$5)) same ((hash\$3 one\$1way encrypt\$3) near5 ((current old existing) near2 key))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:41
S18 1	174	(key near3 (generat\$3 updat\$3 roll\$3 renew\$3 deriv\$5)) with ((hash\$3 one\$1way encrypt\$3) near5 ((current old existing) near2 key))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:26
S18 2	64	S181 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:27
S18 4	8	(key near3 (generat\$3 updat\$3 roll\$3 renew\$3 deriv\$5)) with ((hash\$3 one\$1way encrypt\$3) near5 ((current old existing) near3 (session near key)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:27

## EAST Search History

S18 5	2	S184 and (@ad<"20001227" or @rlad<"20001227")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:27
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